APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
1 of 14

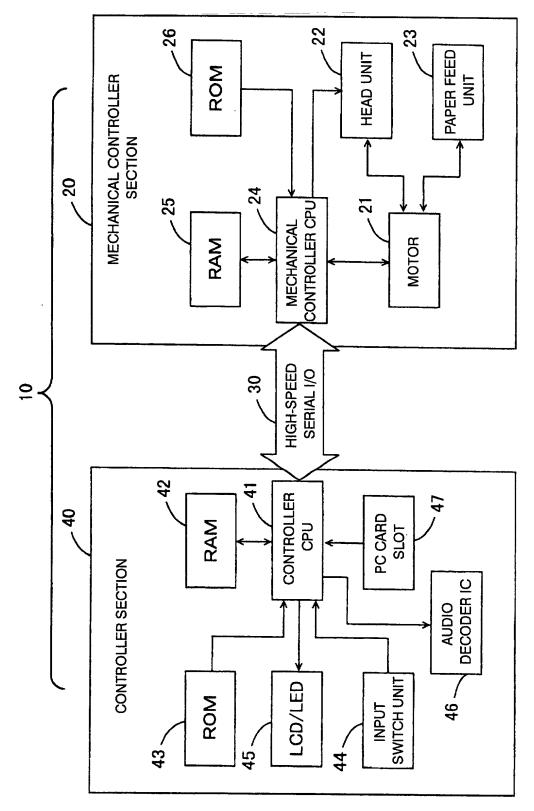


FIG. 1

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
2 of 14

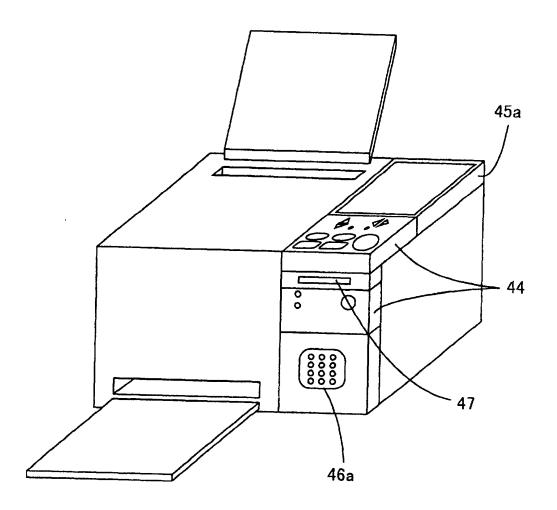


FIG. 2

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
3 of 14

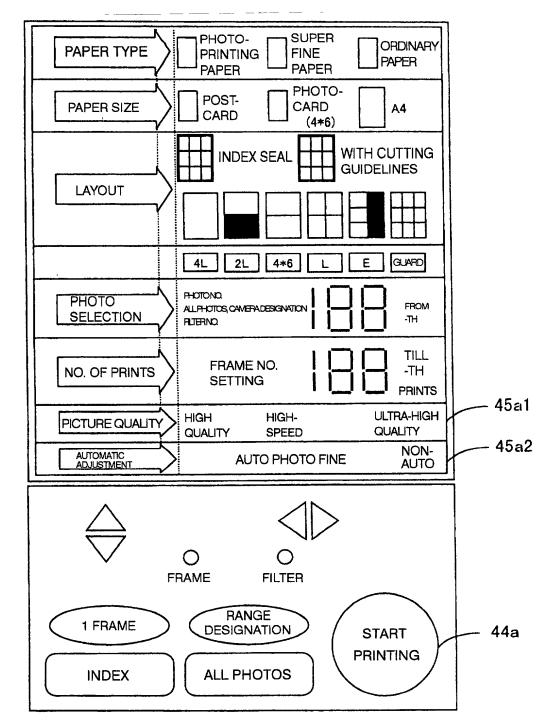


FIG. 3

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
4 of 14

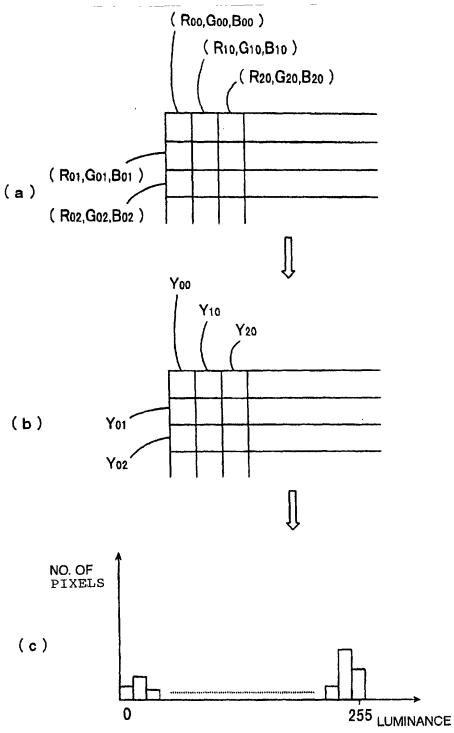


FIG. 4

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
5 of 14

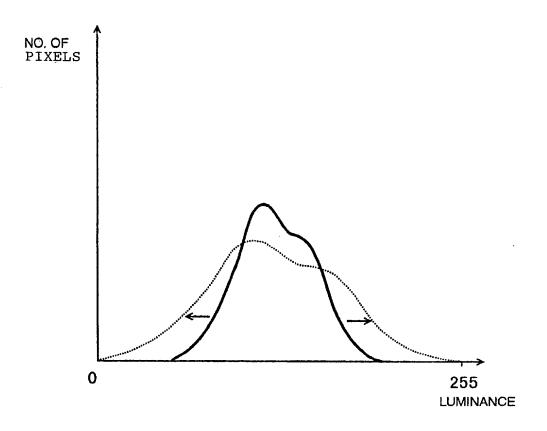


FIG. 5

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
6 of 14

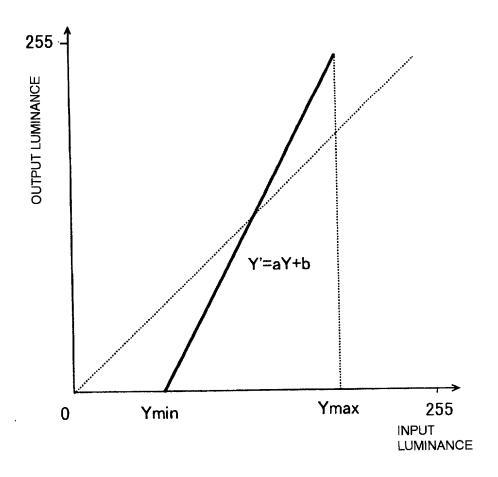


FIG. 6

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
7 of 14

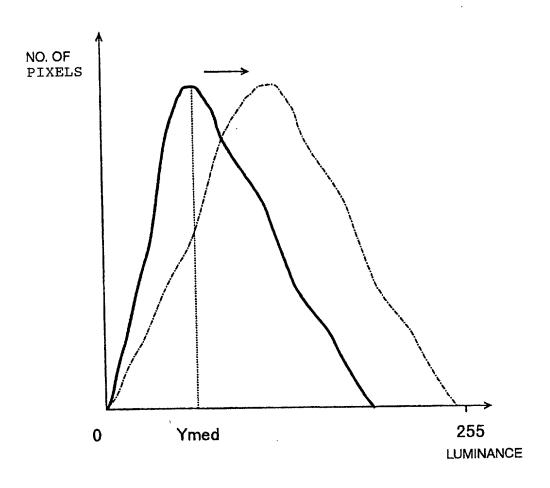


FIG. 7

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
8 of 14

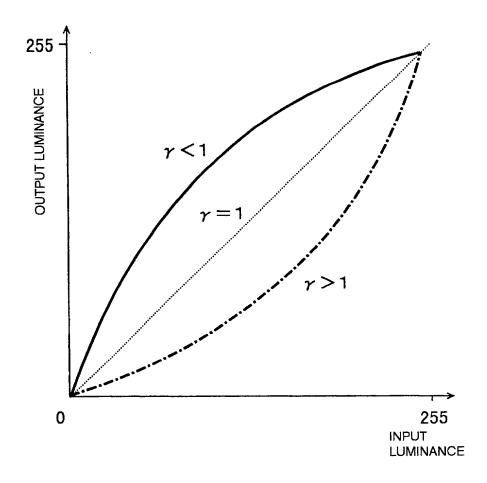


FIG. 8

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
9 of 14

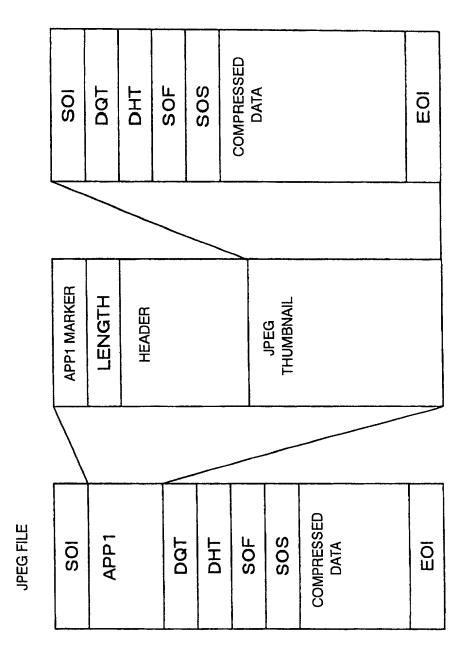


FIG. 9

202-293-7060 10 of 14 START S100-MOUNT PC CARD **OPERATIONAL INPUTS** S102 · • IMAGE QUALITY AUTOMATIC ADJUSTMENT IMAGE SELECTION PAPER SELECTION START PRINTING S104 NO AUTO PHOTO FINE? YES S106-NO HIGH SPEED? YES S108 IS THERE NO **THUMBNAIL** FILE? S112 YES SET "ORIGINAL IMAGE S110-SET "THUMBNAIL" DATA" ON SAMPLING ON SAMPLING FLAT FLAG

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815

NITTA C January 29, 2001 Darryl Mexic

FIG. 10

APPARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
11 of 14

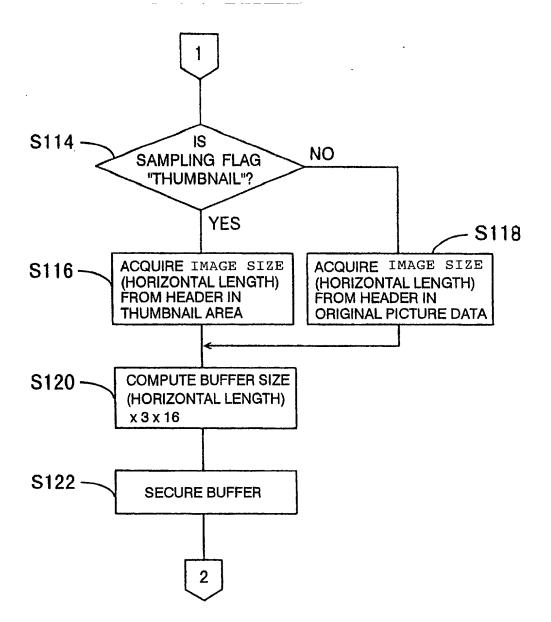


FIG. 11

2 **S124** IS SAMPLING FLAG NO "THUMBNAIL"? YES - S126 **S134 DEVELOP INTO BUFFER DEVELOP INTO BUFFER** SECURING ONE ROW OF SECURING ONE ROW OF MCU IN ORIGINAL MCU IN THUMBNAIL - S128 **S136** SAMPLE REQUIRED TOTAL PIXEL NUMBER OF PIXELS **VALUES S130 S138** SHIFT POINTER TO TOTAL PIXEL **NEXT MCU** VALUES S140 S132 SHIFT POINTER TO FINISHED NO **NEXT MCU** FOR EVERY MCU? **S142** YES **FINISHED** NO FOR EVERY MCU? YES

APPARATUS AND METHOD FOR IMAGE.....

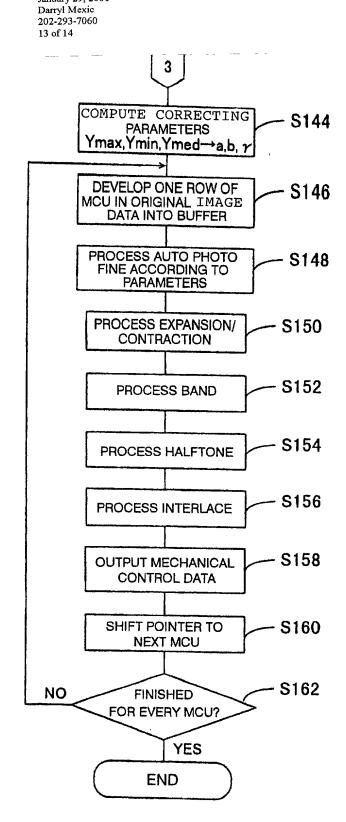
Q61815

NITTA

12 of 14

January 29, 2001 Darryl Mexic 202-293-7060

FIG. 12



APPARATUS AND METHOD FOR IMAGE..... Q61815

NITTA January 29, 2001

FIG. 13

AFFARATUS AND METHOD FOR IMAGE.....
NITTA Q61815
January 29, 2001
Darryl Mexic
202-293-7060
14 of 14 S110,S112 SAMPLING SAMPLING **ABSENT** THUMBNAIL -S126~S132, S134~S142 THUMBNAIL SAMPLING **PRESENT** TOTAL SELECTION Ņ O HOH FEATURE AMOUNT PARAMETER COMPUTATION CORRECTING S148 PARAMETERS S126~S132 FEATURE AMOUNT EXTRACTION **PRECISION** S150~S158 S134~S142 S108 JUDGMENT OF THUMBNAIL PRESENCE OR ABSENCE THUMBNAIL TOTAL IMAGE CORRECTION SAMPLING TOTAL PRECISION SELECTION PRINTING and ò S104,S106 PRECISION SELECTION (INPUT SWITCH UNIT) CONTROLLER CPU THUMBNAIL DATA MEMORY CARD IMAGE DATA MECHANICAL CONTROLLER SECTION 44 BUFFER (RAM)

FIG. 14

41/

42.

20